1056-F5-1904        **John D McKenzie\*** (`mckenzie@babson.edu`), Babson College, Mathematics and Science
Division, 231 Forest Street, Babson Park, MA 02493-0310. *An Innovative Second Half-Course in
Applied Statistics.*

This paper presents an innovative approach to expose upper-class students, mostly sophomores, to statistics beyond the topical coverage found in a well-designed first course in applied statistics. Applied Quantitative Modeling is a required three-credit course with approximately 50% of its coverage devoted to statistics. Namely, multiple linear regression and time series. It also covers three management science topics. Two of which, decision analysis and simulation, rely heavily on our first applied statistics course. Among the approved optional topics for the course is process control and total quality management. And, while an increasing number of our students waives out of our required three-credit Probability and Statistics course, almost none waive out of Applied Quantitative Modeling. This paper describes the statistical component of this course in detail. For example, its team mini-cases. It presents the benefits of a statistician teaching such a course with colleagues who are trained in mathematics and management science. It concludes with a discussion of recent changes in the course, especially how they impact its statistical component. (Received September 22, 2009)